

DOCKET NO.: CRNT-0008
Application No.: 09/765,910
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This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Previously Amended) The method of claim 37, wherein the power line communications repeater is comprises a router.
12. (Previously Amended) The method of claim 37, wherein the second power line communications repeater prevents a first subscriber from accessing data associated with a second subscriber.
13. (Previously Amended) The method of claim 37, wherein the first filter is coupled to the electrical power line on the subscriber side of an electrical power meter.
14. (Previously Amended) The method of claim 37, wherein the first filter is coupled to the electrical power line on the electrical transformer side of an electrical power meter.

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15. (Previously Amended) The method of claim 37, wherein the first power line communications repeater is connected across both the first filter and an electrical power meter.

16. (Previously Amended) The method of claim 37, wherein the first power line communications repeater is connected across both the first filter and an electrical power meter.

17. (Canceled)

18. (Previously Amended) The method of claim 37, further comprising communicatively coupling the first power line communications repeater to a data network, and wherein the data network provides the data signals.

19. (Previously Amended) The method of claim 18, wherein the data network is a wide area network.

20. (Previously Amended) The method of claim 18, wherein the data network is in communication with the electrical power line on the transformer side of the first filter.

21. (Previously Amended) The method of claim 11, wherein the router is in communication with a plurality of subscribers.

22. (Canceled)

24. (Canceled)

25. (Previously Amended) The method of claim 37, wherein the first filter is conductively connected to the electrical power line.

26. (Previously Amended) The method of claim 37, wherein the first filter is inductively coupled to the electrical power line.

27. (Currently Amended) The method of claim 26, wherein the first filter is

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comprises a toroid through which the electrical power line passes.

28. (Canceled)

29. (Canceled)

30. (Currently Amended) A system for providing network communications to subscriber devices at a plurality of subscriber premises, a branch line connecting each subscriber premises to an electric power distribution transformer, the system comprising:

a router communicatively coupled to the plurality of branch lines at a node to control data communications for the subscriber premises;

a plurality of low pass filters with each said low pass filter coupled to a different branch line on the electric power distribution transformer side of the node; and

wherein each filter prevents the flow of data signals through the branch line and permits the flow of power signals through the branch line.

31. (Canceled)

32. (Current Amended) A method of providing data communications in a power line communication network that comprises a first branch line connected to a first subscriber premises through an electric power meter and a second branch line connected to a second subscriber premises and to the first branch line, the method comprising:

coupling a low pass filter to the first branch line on the first subscriber side of the power meter;

coupling a first port of a power line communications repeater to the first branch line on a first side of the filter; and

coupling a second port of the power line communications repeater to the first

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branch line on a second side of the filter;

wherein the low pass filter attenuates the high frequency noise entering the first subscriber premises via the first branch line.

33. (Previously presented) The method of claim 32, wherein the power line communications repeater is connected across both the low pass filter and the power meter.

34. (Current Amended) A method of providing data communications in a power line communication network that comprises a first branch line connecting a distribution transformer to a first subscriber premises through an electric power meter and a second branch line connected to a second subscriber premises and to the first branch line, the method comprising:

coupling a low pass filter to the first branch line on the distribution transformer side of the power meter; ~~the low pass filter located proximal to the 1st subscriber premises~~

coupling a first port of a power line communications repeater to the first branch line on a first side of the filter; and

coupling a second port of the power line communications repeater to the first branch line on a second side of the filter; and

wherein the low pass filter attenuates the high frequency noise entering the first subscriber premises via the first branch line.

35. (Previously presented) The method of claim 34, wherein the power line communications repeater is connected across both the low pass filter and the power meter.

36. (Current Amended) A method of isolating data in a power line communication network that comprises a first branch line connected to a first

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subscriber premises through an electric power meter and a second branch line
connected to a second subscriber premises and to the first branch line, the method
comprising:

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coupling a low pass filter to the first branch line; and
coupling a power line communications repeater to the first branch line
across both the low pass filter and the power meter; and
wherein the low pass filter attenuates the high frequency noise entering the first
subscriber premises via the first branch line.

37. (New) A method of providing data communications over an electrical distribution system comprising an electrical distribution transformer, the electrical distribution transformer being coupled to a first and second electrical power lines, which are each coupled to a different subscriber premises, the system method further comprising:

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coupling a first filter to the first electrical power line;
coupling a second filter to the second electrical power line, wherein the first and second filters prevent the flow of data signals through the electrical power line and permit the flow of power signals through the electrical power line;
communicatively coupling a first power line communications repeater to the first electrical power line across the first filter; and
communicatively coupling a second power line communications repeater to the second electrical power line across the second filter.

38. (New) The system of claim 30, wherein said low pass filters each comprise at least two components selected from the following group: capacitor, inductor, and resistor.

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39. (New) The system of claim 30, wherein said low pass filters each comprise a common mode choke.

40 (New) The system of claim 30, wherein said low pass filter each comprise a ferrite toroid.

41. (New) The method of claim 32, further comprising establishing a power line wide area network (WAN) that comprises the first branch line

42. (New) The method of claim 32, wherein the low pass filter comprises at least two components selected from the following group: capacitor, inductor, and resistor.

43. (New) The method of claim 42, wherein coupling the low pass filter comprises cutting the first branch line.

44. (New) The method of claim 32, wherein the low pass filter comprises a common mode choke.

45. (New) The method of claim 32, wherein coupling the low pass filter comprises disposing a ferrite toroid around the circumference of the first power line.

46. (New) The method of claim 34, further comprising establishing a power line wide area network (WAN) that comprises the first branch line

47. (New) The method of claim 34, wherein the low pass filter comprises at least two components selected from the following group: capacitor, inductor, and resistor.

48. (New) The method of claim 47, wherein coupling the low pass filter comprises cutting the first branch line.

49. (New) The method of claim 34, wherein the low pass filter comprises a common mode choke.

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50. (New) The method of claim 34, wherein coupling the low pass filter comprises disposing a ferrite toroid around the circumference of the first power line.